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Electronic Filing System (EFS) Data  
Electronic Patent Application Submission

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EFS ID: 43221  
Application ID: 10058291  
Title of Invention: Recombinational cloning using  
engineered recombination sites  
First Named Inventor: James Hartley  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2002-01-30  
Effective Receipt Date: 2003-07-09  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 3302  
Attorney Docket Number: 0942.2850001



Total Fees Authorized:

Digital Certificate Holder: cn=Brian Joseph Del Buono,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: 9f8848435ce6290831cb7238ba71ba804cdaa608

**TRANSMITTAL**

Electronic Version v1.1  
Stylesheet Version v1.1.0

<b>Title of Invention</b>	Recombinational cloning using engineered recombination sites									
<p>Application Number: 10/058291 Date: 2002-01-30 First Named Applicant: James L.  Confirmation Number: 3302 Attorney Docket Number: 0942.285000I</p> <p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Brian J. Del Buono Registered Number: 42,473</td><td>/bjd/</td><td>Attorney</td></tr></tbody></table> <table><tr><td><b>Documents being submitted</b> us-ids</td><td><b>Files</b> IDS0942285000C-usidst.xml us-ids.dtd us-ids.xml</td></tr></table> <p><b>Comments</b></p>			Submitted by:	Elec. Sign.	Sign. Capacity	Brian J. Del Buono Registered Number: 42,473	/bjd/	Attorney	<b>Documents being submitted</b> us-ids	<b>Files</b> IDS0942285000C-usidst.xml us-ids.dtd us-ids.xml
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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18  
Stylesheet Version v18.0

Title of Invention	Recombinational cloning using engineered recombination sites																																																																																																																								
<p>Application Number: 10/058291</p> <p>Confirmation Number: 3302</p> <p>First Named Applicant: James Hartley</p> <p>Attorney Docket Number: 0942.285000I</p> <p>Search string: ( 4683195 or 4683202 or 4965188 or 5093257 or 5102797 or 5159062 or 5334375 or 5334575 or 5378618 or 5605793 or 5650557 or 5728551 or 5801030 or 5814300 or 5837458 or 5929307 or 5962255 or 5981177 or 6080576 or 6262341 or 6271436 or 6277608 or 6361972 or 6365377 or 6410266 or 6410317 or 6436707 or 5348886 or 20030027337 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4683195</td><td>1987-07-28</td><td>Mullis et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>4683202</td><td>1987-07-28</td><td>Mullis</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>4965188</td><td>1990-10-23</td><td>Mullis et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>5093257</td><td>1992-03-03</td><td>Gray, G.L.</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>5102797</td><td>1992-04-07</td><td>Tucker et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5159062</td><td>1992-10-27</td><td>Knapp et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>5334375</td><td>1994-08-02</td><td>Nabi et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>5334575</td><td>1994-08-02</td><td>Noonan et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>5378618</td><td>1995-01-03</td><td>Sternberg et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>5605793</td><td>1997-02-25</td><td>Stemmer, W.P.C.</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>5650557</td><td>1997-07-22</td><td>Hannah et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>5728551</td><td>1998-03-17</td><td>Devine et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>13</td><td>5801030</td><td>1998-09-01</td><td>McVey et al.</td><td></td><td></td><td></td></tr><tr><td></td><td>14</td><td>5814300</td><td>1998-09-29</td><td>Scott et al.</td><td></td><td></td><td></td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	4683195	1987-07-28	Mullis et al.					2	4683202	1987-07-28	Mullis					3	4965188	1990-10-23	Mullis et al.					4	5093257	1992-03-03	Gray, G.L.					5	5102797	1992-04-07	Tucker et al.					6	5159062	1992-10-27	Knapp et al.					7	5334375	1994-08-02	Nabi et al.					8	5334575	1994-08-02	Noonan et al.					9	5378618	1995-01-03	Sternberg et al.					10	5605793	1997-02-25	Stemmer, W.P.C.					11	5650557	1997-07-22	Hannah et al.					12	5728551	1998-03-17	Devine et al.					13	5801030	1998-09-01	McVey et al.					14	5814300	1998-09-29	Scott et al.			
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	15	5837458	1998-11-17	Minshull et al.	
	16	5929307	1999-07-27	Hodges et al.	
	17	5962255	1999-10-05	Griffiths et al.	
	18	5981177	1999-11-09	Demirjian et al.	
	19	6080576	2000-06-27	Zambrowicz et al.	
	20	6262341	2001-07-17	Baszcynski et al.	B1
	21	6271436	2001-08-07	Piedrahita et al.	B1
	22	6277608	2001-08-21	Hartley et al.	B1
	23	6361972	2002-03-26	Harrington et al.	
	24	6365377	2002-04-02	Patten et al.	B1
	25	6410266	2002-06-25	Harrington et al.	
	26	6410317	2002-06-25	Farmer, A.F.	B1
	27	6436707	2002-08-20	Zambrowicz et al.	
	28	5348886	1994-09-20	Lee et al.	

## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
	1	20030027337	2003-02-06	Droge et al.			

## Signature

Examiner Name	Date



Robert Greene Sterne  
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July 9, 2003

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Art Unit 1636

Re: U.S. Utility Patent Application  
Appl. No. 10/058,291; Filed: January 30, 2002  
For: **Recombinational Cloning Using Engineered Recombination Sites**  
Inventors: HARTLEY *et al.*  
Our Ref: 0942.2850001/RWE/BJD/JKM

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Second Supplemental Information Disclosure Statement;
2. List of cited references on Form PTO-1449 (34 sheets);
3. A copy of each reference cited on Form PTO-1449 (120 documents: AN5-AL9, and AR72-AS105); and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents

July 9, 2003

Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

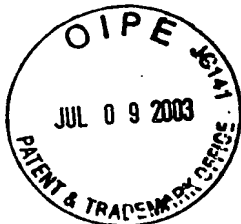
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Brian J. Del Buono", with a long horizontal flourish extending to the right.

Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

RWE/BJD/JKM/acr  
Enclosures

SKGF\_DC1:152773.1



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In re application of:

Hartley *et al.*

Appl. No. 10/058,291

Filed: January 30, 2002

For: **Recombinational Cloning  
Using Engineered  
Recombination Sites**

Confirmation No. 3302

Art Unit: 1636

Examiner: *To Be Assigned*

Atty. Docket: 0942.285000I/RWE/BJD/JKM

## Second Supplemental Information Disclosure Statement

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Second Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' First Supplemental Information Disclosure Statement filed electronically herewith, and Applicants' Information Disclosure Statement filed June 18, 2002, in connection with the above-captioned application. A copy of each document is also provided.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates

should not be construed as an admission that the information was actually published on the date indicated.

This Second Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: July 9, 2003

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FORM PTO-1449  <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000I/RWE/BJD/JKM	APPLICATION NO. 10/058
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN5	EP 0 220 009	04/29/1987	Europe			Yes No
	AO5	WO 90/11375	10/04/1990	WIPO			Yes No
	AP5	EP 0 427 074	05/15/1991	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	72	Akagi, K., et al., "Cre-mediated somatic site-specific recombination in mice," <i>Nucl. Acids Res.</i> 25:1781-1788, Oxford University Press (1997).
AS	72	Aladjem, M.I., et al., "Positive Selection of FLP-Mediated Unequal Sister Chromatid Exchange Products in Mammalian Cells," <i>Mol. Cell. Biol.</i> 17:857-861, American Society for Microbiology (1997).
AT	72	Angelastro, J.M., et al., "Identification of diverse nerve growth factor-regulated genes by serial analysis of gene expression (SAGE) profiling," <i>Proc. Natl. Acad. Sci. USA</i> 97:10424-10429, National Academy of Sciences of the USA (September 2000).

EXAMINER

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**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKMAPPLICATION NO.  
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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6	WO 91/09957	07/11/1991	WIPO			Yes No
	AM6	WO 92/15694	09/17/1992	WIPO			Yes No
	AN6	WO 92/22650	12/23/1992	WIPO			Yes No
	AO6	EP 0 542 466	05/19/1993	Europe			Yes No
	AP6	WO 94/03624	02/17/1994	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	73	Angrand, P.O., et al., "Inducible expression based on regulated recombination: a single vector strategy for stable expression in cultured cells," Nucl. Acids Res. 26:3263-3269, Oxford University Press (1998).
AS	73	Ayres, E.K., et al., "Precise Deletions in Large Bacterial Genomes by Vector-mediated Excision (VEX). The trfA Gene of Promiscuous Plasmid RK2 is Essential for Replication in Several Gram-negative Hosts," J. Mol. Biol. 230:174-185, Academic Press (1993).
AT	73	Backman, K., et al., "Use of Synchronous Site-Specific Recombination In Vivo to Regulate Gene Expression," Bio/Technology 2:1045-1049, Nature Publishing Company (1984).

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	AN7	WO 96/30498	10/03/1996	WIPO			Yes
							No
	AO7	WO 96/40724	12/19/1996	WIPO			Yes
							No
	AP7	WO 99/55851	11/04/1999	WIPO			Yes
							No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	74	Bai, C., et al., "SKP1 Connects Cell Cycle Regulators to the Ubiquitin Proteolysis Machinery through a Novel Motif, the F-Box," Cell 86:263-274, Cell Press (1996).
	AS	74	Bernard, P. et al., "The F Plasmid CcdB Protein Induces Efficient ATP-dependent DNA Cleavage by Gyrase," J. Mol. Biol. 234:534-541, Academic Press (1993).
	AT	74	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," BioTechniques 21:320-323, Eaton Publishing Company (1996).

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	AM8	WO 01/05961	01/25/2001	WIPO			Yes No
	AN8	WO 01/07572	02/01/2001	WIPO			Yes No
	AO8	WO 01/11058	02/15/2001	WIPO			Yes No
	AP8	WO 01/62892	08/30/2001	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	75	Boshart, M., et al., "A Very Strong Enhancer is Located Upstream of an Immediate Early Gene of Human Cytomegalovirus," Cell 41:521-530, The MIT Press (1985).
AS	75	Bouhassira, E.E., et al., "Transcriptional Behavior of LCR Enhancer Elements Integrated at the Same Chromosomal Locus by Recombinase-Mediated Cassette Exchange," Blood 90:3332-3344, The American Society of Hematology (1997).
AT	75	Burioni, R., et al., "An improved phage display vector for antibody repertoire cloning by construction of combinatorial libraries," Res. Virol. 148:161-164, Elsevier (1997).

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FORM PTO-1449  <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.2850001/RWE/BJD/JKM	APPLICATION NO. 10/058,971
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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	AL9	WO 02/05294	01/17/2002	WIPO			Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	76	Capone, J.P., et al., "Introduction of UAG, UAA, and UGA Nonsense Mutations at a Specific Site in the <i>Escherichia coli</i> Chloramphenicol Acetyltransferase Gene: Use in Measurement of Amber, Ochre, and Opal Suppression in Mammalian Cells," <i>Mol. Cell. Biol.</i> 6:3059-3067, American Society for Microbiology (1986).
AS	76	Chanock, R.M., et al., "Human Monoclonal Antibody Fab Fragments Cloned from Combinatorial Libraries: Potential Usefulness in Prevention and/or Treatment of Major Human Viral Diseases," <i>Infect. Agents Dis.</i> 2:118-131, Raven Press (1993).
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FORM PTO-1449  SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000I/RWE/BJD/JKM	APPLICATION NO. 10/058,297
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	77	Chouluka, A., et al., "Transfer of Single Gene-Containing Long Terminal Repeats into the Genome of Mammalian Cells by a Retroviral Vector Carrying the cre Gene and the loxP Site." <i>J. Virol.</i> 70:1792-1798, American Society for Microbiology (1996).
	AS	77	Chuang, C.-F., and Meyerowitz, E.M., "Specific and heritable genetic interference by double-stranded RNA in <i>Arabidopsis thaliana</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 97:4985-4990, National Academy of Sciences (2000).
	AT	77	Cigan, A.M., et al., "Mutational Analysis of the <i>HIS4</i> Translational Initiator Region in <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 8:2964-2975, American Society for Microbiology (1988).

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FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKMAPPLICATION NO.  
10/058,294APPLICANT  
Hartley et al.FILING DATE  
January 30, 2002GROUP  
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	78	Curcio, M.J., and Garfinkel, D.J., "Single-step selection for Tyl element retrotransposition," Proc. Natl. Acad. Sci. USA 88:936-940, National Academy of Sciences (1991).
AS	78	Datson, N.A., et al., "MicroSAGE: a modified procedure for serial analysis of gene expression in limited amounts of tissue," Nucl. Acids Res. 27:1300-1307, Oxford University Press (1999).
AT	78	Davis, C.R., et al., "Analysis of the Mechanisms of Action of the <i>Saccharomyces cerevisiae</i> Dominant Lethal <i>cdc42</i> <sup>G12V</sup> and Dominant Negative <i>cdc42</i> <sup>D118A</sup> Mutations," J. Biol. Chem. 273:849-858, The American Society for Biochemistry and Molecular Biology (1998).

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FORM PTO-1449  <u>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.2850001/RWE/BJD/JKM	APPLICATION NO. 10/058,001
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	79	Deng, M.-D., and Coleman, J.R., "Ethanol Synthesis by Genetic Engineering in Cyanobacteria," Appl. Environ. Microbiol. 65:523-528, American Society for Microbiology (1999).
AS	79	Derbyshire, V., and Belfort, M., "Lightning strikes twice: Intron-intein coincidence," Proc. Natl. Acad. Sci. USA 95:1356-1357, National Academy of Sciences (1998).
AT	79	Dijkema, R., et al., "Cloning and expression of the chromosomal immune interferon gene of the rat." EMBO J. 4:761-767, IRL Press Limited (1985).

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FORM PTO-1449  SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000I/RWE/BJD/JKM	APPLICATION NO. 10/058,291
	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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AR	80	Esposito, D., and Scocca, J.J., "The integrase family of tyrosine recombinases: evolution of a conserved active site domain," <i>Nucl. Acids Res.</i> 25:3605-3614, Oxford University Press (1997).
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AT	80	Flores, A., et al., "A protein-protein interaction map of yeast RNA polymerase III," <i>Proc. Natl. Acad. Sci. USA</i> 96:7815-7820, National Academy of Sciences (July 1999).

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## U.S. PATENT DOCUMENTS

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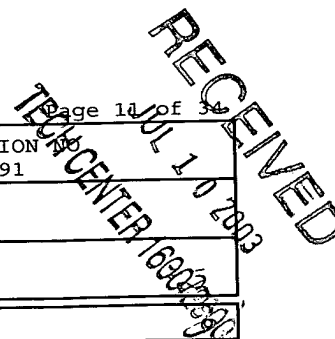
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	AR	81	Francia, M.V., et al., "The IntI1 Integron Integrase Preferentially Binds Single-Stranded DNA of the attC Site," <i>J. Bacteriol.</i> 181:6844-6849, American Society for Microbiology (1999).
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	AT	81	Gay, P., et al., "Cloning Structural Gene <i>sacB</i> , Which Codes for Exoenzyme Levansucrase of <i>Bacillus subtilis</i> : Expression of the Gene in <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 153:1424-1431, American Society for Microbiology (1983).

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AR	82	Gay, P., et al., "Positive Selection Procedure for Entrapment of Insertion Sequence Elements in Gram-Negative Bacteria," <i>J. Bacteriol.</i> 164:918-921, American Society for Microbiology (1985).
AS	82	Gorman, C.M., et al. "The Rous sarcoma virus long terminal repeat is a strong promoter when introduced into a variety of eukaryotic cells by DNA-mediated transfection," <i>Proc. Natl. Acad. Sci. USA</i> 79:6777-6781, National Academy of Sciences (1982).
AT	82	Grindley, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the <i>E. coli</i> K12 <i>polA</i> Gene on the Replication of Non-transferring Plasmids," <i>Molec. Gen. Genet.</i> 143:311-318, Springer Verlag (1976).

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	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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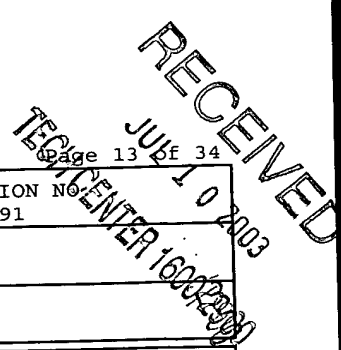
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	83	Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions," <i>J. Biol. Chem.</i> 260:12328-12335, The American Society of Biological Chemists (1985).
AS	83	Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the <i>Cin</i> recombinase have a relaxed topological specificity," <i>EMBO J.</i> 7:3991-3996, IRL Press (1988).
AT	83	Hancock, R.E.W., and Scott, M.G., "The role of antimicrobial peptides in animal defenses," <i>Proc. Natl. Acad. Sci. USA</i> 97:8856-8861, National Academy of Sciences (August 2000).

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	APPLICANT Hartley et al.	
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## U.S. PATENT DOCUMENTS

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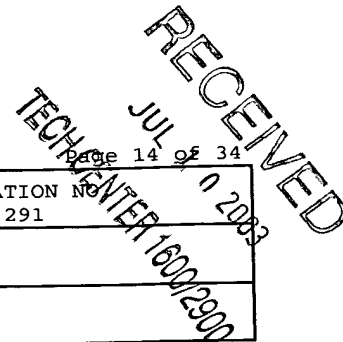
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	84	Hehl, R., et al., "Structural analysis of Tam3, a transposable element from <i>Antirrhinum majus</i> , reveals homologies to the Ac element from maize," <i>Plant Molec. Biol.</i> 16:369-371, Kluwer Academic Publishers (1991).
AS	84	Henikoff, S., "Unidirectional digestion with exonuclease III creates targeted breakpoints for DNA sequencing," <i>Gene</i> 28:351-359, Elsevier Science (1984).
AT	84	Hochuli, E., et al., "Genetic Approach to Facilitate Purification of Recombinant Proteins with a Novel Metal Chelate Adsorbent," <i>Bio/Technology</i> 6:1321-1325, Nature Publishing Company (1988).

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	APPLICANT Hartley et al.	
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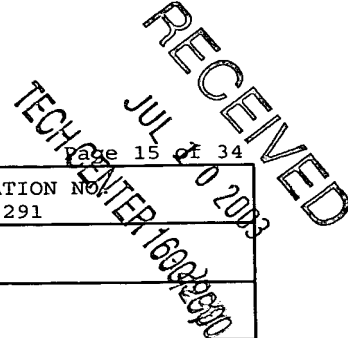
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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>85</u>	Hoess, R.H., and Abremski, K., "Interaction of the bacteriophage P1 recombinase Cre with the recombining site loxP," <i>Proc. Natl. Acad. Sci. USA</i> 81:1026-1029, National Academy of Sciences (1984).
	AS	<u>85</u>	Iida, S., et al., "A site-specific, conservative recombination system carried by bacteriophage P1. Mapping of the recombinase gene cin and the crossover sites cix for the inversion of the C segment." <i>EMBO J.</i> 1:1445-1453, IRL Press Limited (1982).
	AT	<u>85</u>	Kaniga, K., et al., "A wide-host-range suicide vector for improving reverse genetics in Gram-negative bacteria: inactivation of the blaA gene of <i>Yersinia enterocolitica</i> ," <i>Gene</i> 109:137-141, Elsevier Science B.V. (1991).

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0942.285000I/RWE/BJD/JKMAPPLICATION NO.  
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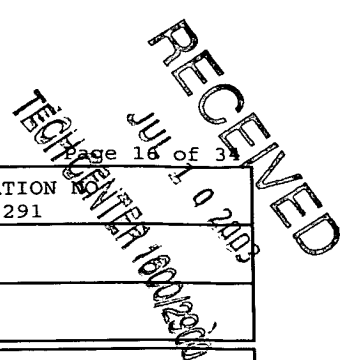
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	86	Kealey, J.T., et al., "Production of polyketide natural product in nonpolyketide-producing prokaryotic and eukaryotic hosts," <i>Proc. Natl. Acad. Sci. USA</i> 95:505-509, National Academy of Sciences (1998).
	AS	86	Kholodenko, B.N., et al., "Metabolic Design: How to Engineer a Living Cell to Desired Metabolite Concentrations and Fluxes," <i>Biotechnol. Bioengineer.</i> 59:239-247, John Wiley & Sons (1998).
	AT	86	Kim, D.W., "Use of the human elongation factor 1 $\alpha$ promoter as a versatile and efficient expression system," <i>Gene</i> 91:217-223, Elsevier Science B.V. (1990).

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	APPLICANT Hartley et al.	
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	87	Kolb, A.F., and Siddell, S.G., "Genomic targeting with an MBP-Cre fusion protein," <i>Gene</i> 183:53-60, Elsevier Science B.V. (1996).
	AS	87	Kouprina, N., et al., "Rescue of Targeted Regions of Mammalian Chromosomes by in Vivo Recombination in Yeast," <i>Genome Res.</i> 8:666-672, Cold Spring Harbor Laboratory Press (1998).
	AT	87	Kozak, M., "Comparison of Initiation of Protein Synthesis in Procaryotes, Eucaryotes, and Organelles," <i>Microbiol. Rev.</i> 47:1-45, American Society for Microbiology (1983).

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FORM PTO-1449  SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000I/RWE/BJD/JKM	APPLICATION NO. 10/058,291
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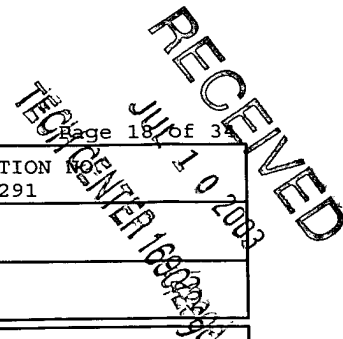
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	88	Krautwald, S., and Baccarini, M., "Bacterially Expressed Murine CSF-1 Possesses Agonistic Activity in its Monomeric Form," <i>Biochem. Biophys. Res. Commun.</i> 192: 720-727, Academic Press (1993).
	AS	88	Leslie, N.R., and Sherratt, D.J., "Site-specific recombination in the replication terminus region of <i>Escherichia coli</i> : functional replacement of <i>dif</i> ," <i>EMBO J.</i> 14:1561-1570, Oxford University Press (April 1995).
	AT	88	Leung, L.L.K., "Application of Combinatorial Libraries and Protein Engineering to the Discovery of Novel Anti-Thrombotic Drugs," <i>Thromb. Haemost.</i> 74:373-376, F.K. Schattauer Verlagsgesellschaft mbH (July 1995).

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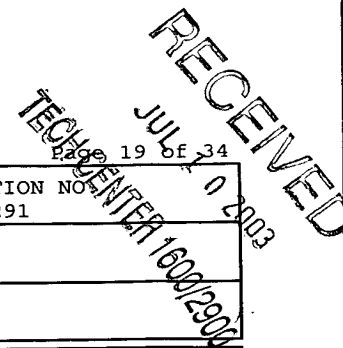
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	AL						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	89	Li, Z.-W., et al., "Generation of mice with a 200-kb amyloid precursor protein gene deletion by Cre recombinase-mediated site-specific recombination in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:6158-6162, National Academy of Sciences (1996).
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	AT	89	Madison, L.L., and Huisman, G.W., "Metabolic Engineering of Poly(3-Hydroxyalkanoates): From DNA to Plastic," <i>Microbiol. Mol. Biol. Rev.</i> 63:21-53, American Society for Microbiology (1999).

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FORM PTO-1449

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.2850001/RWE/BJD/JKMAPPLICATION NO.  
10/058,291APPLICANT  
Hartley et al.FILING DATE  
January 30, 2002GROUP  
1636

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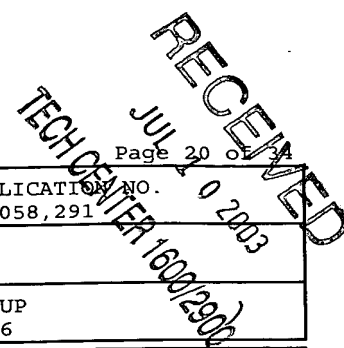
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>90</u>	Maemura, K., et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>J. Biol. Chem.</i> 274:31565-31570, The American Society for Biochemistry and Molecular Biology (1999).
	AS	<u>90</u>	Mahillon, J., et al., "Subdivision of the <i>Escherichia coli</i> K-12 genome for sequencing: manipulation and DNA sequence of transposable elements introducing unique restriction sites," <i>Gene</i> 223:47-54, Elsevier Science B.V. (1998).
	AT	<u>90</u>	Malynn, B.A., et al., "The <i>scid</i> Defect Affects the Final Step of the Immunoglobulin VDJ Recombinase Mechanism," <i>Cell</i> 54:453-460, Cell Press (1988).

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	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

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	AR	<u>91</u>	Maniatis, T., et al., "Regulation of Inducible and Tissue-Specific Gene Expression," <i>Science</i> 236:1237-1245, American Association for the Advancement of Science (1987).
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	AT	<u>91</u>	Mercier, J., et al., "Structural and Functional Characterization of <i>tnpI</i> , a Recombinase Locus in Tn21 and Related $\beta$ -Lactamase Transposons," <i>J. Bacteriol.</i> 172:3745-3757, American Society for Microbiology (1990).

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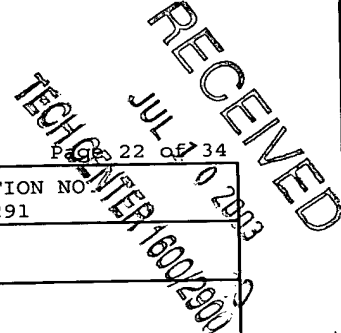
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	AR	<u>92</u>	Metcalfe, W.W., et al., "Conditionally Replicative and Conjugative Plasmids Carrying <i>lacZ</i> $\alpha$ for Cloning, Mutagenesis, and Allele Replacement in Bacteria," <i>Plasmid</i> 35:1-13, Academic Press (1996).
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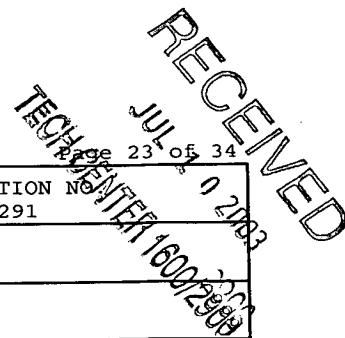
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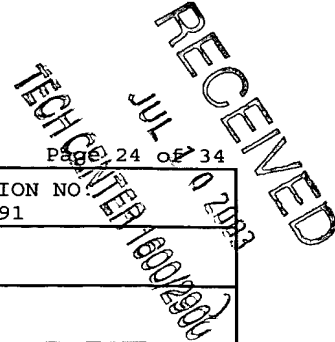
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	AR	94	Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System," <i>Plant Physiol.</i> 106:447-458, American Society of Plant Physiologists (October 1994).
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	AR	<u>95</u>	Patel, P.H., and Loeb, L.A., "DNA polymerase active site is highly mutable: Evolutionary consequences," <i>Proc. Natl. Acad. Sci. USA</i> 97:5095-5100, National Academy of Sciences (2000).
	AS	<u>95</u>	Perler, F.B., "InBase, the New England Biolabs Intein Database," <i>Nucl. Acids Res.</i> 27:346-347, Oxford University Press (1999).
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ATTY. DOCKET NO.  
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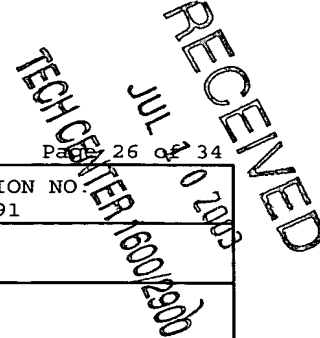
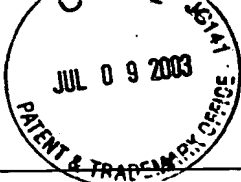
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>96</u>	Phillips-Jones, M.K., et al., "Context Effects on Misreading and Suppression at UAG Codons in Human Cells," <i>Mol. Cell. Biol.</i> 15:6593-6600, American Society for Microbiology (December 1995).
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	AT	<u>96</u>	Prieto, M.A., et al., "Molecular Characterization of the 4-Hydroxyphenylacetate Catabolic Pathway of <i>Escherichia coli</i> W: Engineering a Mobile Aromatic Degradative Cluster," <i>J. Bacteriol.</i> 178:111-120, American Society for Microbiology (1996).

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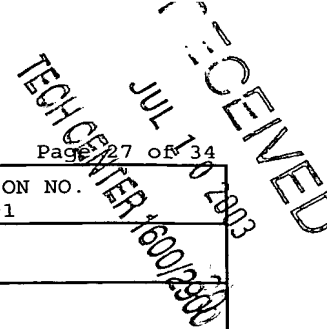
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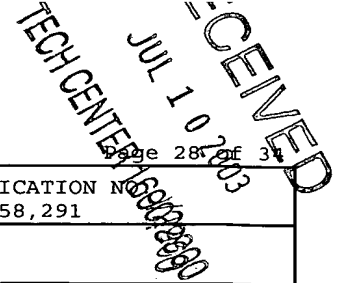
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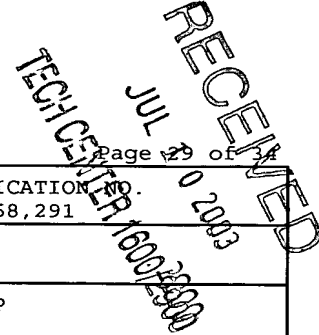
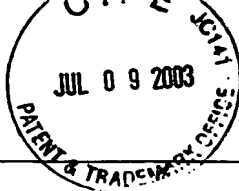
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	AR	<u>99</u>	Schild, D., et al., "Cloning of three human multifunction <i>de novo</i> purine biosynthetic genes by functional complementation of yeast mutations," <i>Proc. Natl. Acad. Sci. USA</i> 87:2916-2920, National Academy of Sciences (1990).
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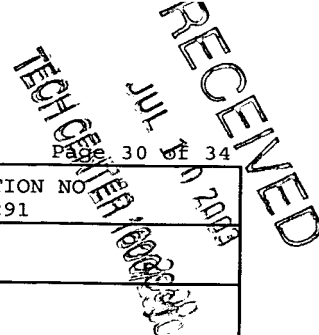
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	AR	<u>100</u>	Shim, J., et al., "Distinct and Redundant Functions of $\mu$ 1 Medium Chains of the AP-1 Clathrin-Associated Protein Complex in the Nematode <i>Caenorhabditis elegans</i> ," <i>Mol. Biol. Cell</i> 11:2743-2756, The American Society for Cell Biology (2000).
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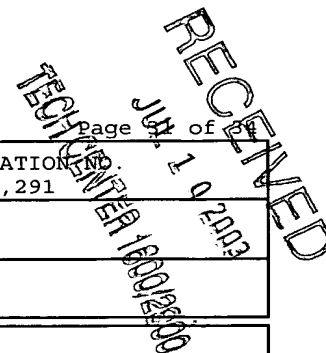
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>101</u>	Stark, W.M., et al., "Site-Specific Recombination by Tn3 Resolvase: Topological Changes in the Forward and Reverse Reactions," Cell 58:779-790, Cell Press (1989).
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FORM PTO-1449

SECOND SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
0942.285000I/RWE/BJD/JKMPage 1 of 1  
APPLICATION NO.  
10/058,291APPLICANT  
Hartley et al.FILING DATE  
January 30, 2002GROUP  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

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	AP						Yes No

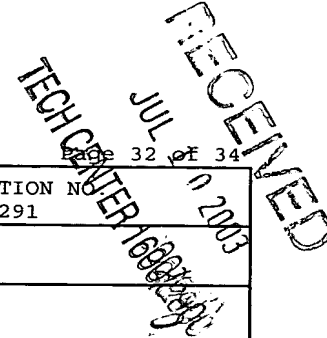
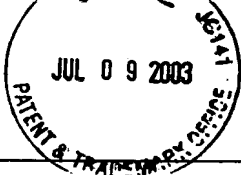
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	AR	<u>102</u>	Stenzel, T.T., et al., "The Integration Host Factor of <i>Escherichia coli</i> Binds to Bent DNA at the Origin of Replication of the Plasmid pSC101," Cell 49:709-717, Cell Press (1987).
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	AT	<u>102</u>	Uetsuki, T., et al., "Isolation and Characterization of the Human Chromosomal Gene for Polypeptide Chain Elongation Factor-1 $\alpha$ ," J. Biol. Chem. 264:5791-5798, The American Society for Biochemistry and Molecular Biology (1989).

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	APPLICANT Hartley et al.	
	FILING DATE January 30, 2002	GROUP 1636

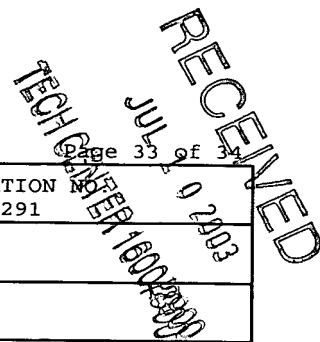
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>103</u>	van den Berg, A., et al., "Serial analysis of gene expression: rapid RT-PCR analysis of unknown SAGE tags," <i>Nucl. Acids Res.</i> 27(e17):i-iii, Oxford University Press (1999).
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FORM PTO-1449

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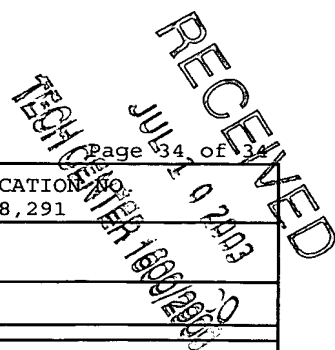
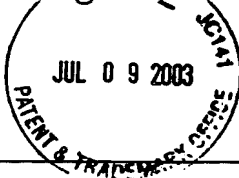
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	AR	<u>104</u>	Yoon, H., et al., "SSL1, a suppressor of a HIS4 5'-UTR stem-loop mutation, is essential for translation initiation and affects UV resistance in yeast," <i>Genes Dev.</i> 6:2463-2477, Cold Spring Harbor Laboratory Press (1992).
	AS	<u>104</u>	Bauer, C.E. et al., "Extent of Sequence Homology Required for Bacteriophage Lambda Site-specific Recombination," <i>J. Mol. Biol.</i> 181:187-197, Academic Press Inc. (1985).
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	AO						Yes No
	AP						Yes No
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	AT	<u>105</u>					
EXAMINER					DATE CONSIDERED		
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